PCT09

RAW SEQUENCE LISTING DATE: 07/11/2001 PATENT APPLICATION: US/09/762,432 TIME: 11:26:07

Input Set : A:\Sequence.txt

Output Set: N:\CRF3\07112001\I762432.raw

## **ENTERED**

|    | 6<br>7   | <120>   | APPLICATION OF THE REPORT OF THE THE REPORT OF THE REPORT | OF INVE                                 | NTION<br>WTH F | : TRI | EATMI<br>R-LII | ENT (<br>KE P( |       |       |             | ERVO | JS S | YSTEM    | ISCHEMIA   | OR    | TRAUMA | WITH |
|----|----------|---|---|---|----------------|-------|----------------|----------------|-------|-------|-------------|------|------|----------|------------|-------|--------|------|
| C> | 11       | <140>   | CURRENT   | C APPLI                                 | CATIO          | N NUI | MBER           | : US,          | /09/  | 762,4 | 132         |      |      |          |            |       |        |      |
| C> |          |   | CURRENT   |   |                |       |                |                |       |       |             |      |      |          |            |       |        |      |
|    |          |   | PRIOR A   |   |                |       |                |                | JS99, | /1802 | 22          |      |      |          |            |       |        |      |
|    |          |   | PRIOR I   |   |                |       |                |                |       |       |             |      |      |          |            |       |        |      |
|    |          |   | PRIOR A   |   |                |       |                |                | 0/09! | 5,830 | )           |      |      |          |            |       |        |      |
|    |          |   | PRIOR F   |   |                |       |                | -07            |       |       |             |      |      |          |            |       |        |      |
|    |          |   | NUMBER OF SEQ ID NOS: 3   |   |                |       |                |                |       |       |             |      |      |          |            |       |        |      |
|    |          |   | 70> SOFTWARE: FastSEQ for Windows Version 3.0   |   |                |       |                |                |       |       |             |      |      |          |            |       |        |      |
|    |          |   | .0> SEQ ID NO: 1  |   |                |       |                |                |       |       |             |      |      |          |            |       |        |      |
|    |          |   | <pre>&lt;211&gt; LENGTH: 888</pre>  |   |                |       |                |                |       |       |             |      |      |          |            |       |        |      |
|    |          | 23 <212> TYPE: DNA<br>24 <213> ORGANISM: Homo sapiens<br>26 <220> FEATURE:<br>27 <221> NAME/KEY: CDS<br>28 <222> LOCATION: (262)(885)<br>30 <400> SEQUENCE: 1 |   |   |                |       |                |                |       |       |             |      |      |          |            |       |        |      |
|    |          |   |   |   |                |       |                |                |       |       |             |      |      |          |            |       |        |      |
|    |          |   |   |   |                |       |                |                |       |       |             |      |      |          |            |       |        |      |
|    |          |   |   |   |                |       |                |                |       |       |             |      |      |          |            | •     |        |      |
|    |          |   |   |   |                |       |                |                |       |       |             |      |      |          |            |       |        |      |
|    | 31       |   |   |   |                |       |                |                |       |       |             |      |      | 60       |            |       |        |      |
|    | 32       |   | gggctg a  |   |                |       |                |                |       |       |             |      |      |          |            | 120   |        |      |
|    | 33       |   | gcttgc a  |   |                |       |                |                |       |       |             |      |      |          | J J        | 180   |        |      |
|    | 34       |   | cagete t  |   |                |       |                |                |       |       |             |      |      |          |            | 240   |        |      |
|    | 35       |   | cctctc  |   |                |       |                |                |       |       |             |      |      |          |            | 291   |        |      |
|    | 36       | ,   | -   | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | ,              |       |                |                |       |       |             |      |      | Leu      |            |       |        |      |
|    | 37       |   |   |   |                | 1     | =              |                |       | 5     |             |      |      |          | 10         |       |        |      |
|    | 39       | ctc 1   | ttt ctg   | gct gc                                  | a gtt          | ctc   | tcg            | gca            | ctg   | gtg   | act         | ggc  | gag  | agc      | ctg        | 339   |        |      |
|    | 40       | Leu l   | Phe Leu   | Ala Al                                  | a Val          | Leu   | Ser            | Ala            | Leu   | Val   | Thr         | Gly  | Glu  |          | Leu        |       |        |      |
|    | 41       |   |   |   | 5              |       |                |                | 20    |       |             |      |      | 25       |            |       |        |      |
|    | 43       |   | cgg ctt   |   |                |       |                |                |       |       |             |      |      |          |            | 387   |        |      |
|    | 44       | Glu <i>l</i>  | Arg Leu   | -                                       | g Gly          | Leu   | Ala            |                | Gly   | Thr   | Ser         | Asn  |      | Asp      | Pro .      |       |        |      |
|    | 45       |   |   | 30                                      |                |       |                | 35             |       |       |             |      | 40   |          |            |       |        |      |
|    | 47       |   | act gta   |   |                |       |                |                |       |       |             |      |      |          |            | 435   |        |      |
|    | 48       | Pro !   | Thr Val   | Ser Th                                  | r Asp          | GIn   |                | Leu            | Pro   | Leu   | GLY         |      | GIY  | Arg      | Asp        |       | •      |      |
|    | 49       |   | 45  |   |                |       | 50             |                |       |       |             | 55   |      |          |            | 402   |        |      |
|    | 51       |   | aaa gtc   |   |                |       |                |                |       |       |             |      |      |          |            | 483   |        |      |
|    | 52       | Arg I   | Lys Val   | Arg As                                  | р геп          |       | GIU            | Ата            | Asp   | ьeu   |             | ьeu  | ьец  | ALG      | val        |       |        |      |
|    | 53       |   | 60  | +~~ ~~                                  | ~ ~~           | 65    | ~~~            | at a           | ~~~   | 202   | 70          | 226  | 224  | asa      | asa        | 531   |        |      |
|    | 55       |   | tta tcc<br>Leu Ser  |   |                |       |                |                |       |       |             |      |      |          |            | JJ1   |        |      |
|    | 56<br>57 | 75  | Leu Sei   | ser Ly                                  | 80             |       | мта            | ьец            | мта   | 85    | rio         |      | цуs  | GIU      | 90         |       |        |      |
|    | 59       |   | ggg aaa   | ana aa                                  |                |       | ממכ            | aad            | aaa   |       | aaa         | aad  | aaq  | agg      |            | 579   |        |      |
|    | 60       |   | Gly Lys   |   |                |       |                |                |       |       |             |      |      |          |            | - · • |        |      |
|    | 61       | 1113  | оту пуо   | _                                       | з дуз<br>5     | נעם   | <b>5</b> ± y   | פעה            | 100   |       | ~~ <u>y</u> | ~, ~ | -,-  | 105      | r          |       |        |      |
|    | 63       | cca f   | tgt ctt   | -                                       | -              | aaσ   | gac            | ttc            |       | atc   | cat         | qqa  | gaa  |          | aaa        | 627   |        |      |
|    | 64       | Pro   | Cys Leu   | Ara I.v                                 | s Tvr          | Lvs   | Asp            | Phe            | Cvs   | Ile   | His         | Ğĺv  | Ğlu  | Cys      | Lys        |       |        |      |
|    | ٠.       | (   | -10 100   | y                                       | - +1-          | -10   |                |                | - 1 - |       |             | 1    |      | <b>_</b> | <b>4</b> - |       |        |      |



RAW SEQUENCE LISTING .
PATENT APPLICATION: US/09/762,432 DATE: 07/11/2001 TIME: 11:26:07

Input Set : A:\Sequence.txt
Output Set: N:\CRF3\07112001\1762432.raw

| 65   |  |  | 110  |  |  |  |  | 115  |  |   |  |  | 120   |   |  |     |
|--|--|--|--|--|--|--|--|--|--|---|--|--|---|---|--|-----|
|  |  | aag  |  |  |  |  |  |  |  |   |  |  |   |   |  | 675 |
|  | r Val  | Lys  | Glu  | Leu  | Arg  | Ala  |  | Ser  | Cys  | Ile   | Cys  |  | Pro   | Gly   | Tyr  |     |
| 69   |  | 125  |  |  |  |  | 130                                    |  |  |   |  | 135  |   |   |  |     |
|  |  | gag  |  |  |  |  |  |  |  |   |  |  |   |   |  | 723 |
| 72 His   | s Gly  | Glu  | Arg  | Cys  | His  | Gly  | Leu                                    | Ser  | Leu  | Pro   | Val  | Glu  | Asn   | Arg   | Leu  |     |
| 73   | 140  |  |  |  |  | 145  |  |  |  |   | 150  |  |   |   |  |     |
| 75 ta1   | acc  | tat  | gac  | cac  | aca  | acc  | atc                                    | ctg  | gcc  | gtg   | gtg  | gct  | gtg   | gtg   | ctg  | 771 |
| 76 Ty  | Thr  | Tyr  | Asp  | His  | Thr  | Thr  | Ile                                    | Leu  | Ala  | Val   | Val  | Ala  | Val   | Val   | Leu  |     |
| 77 15!   |  | -  | •  |  | 160  |  |  |  |  | 165   |  |  |   |   | 170  |     |
| 79 tca   | a tct  | gtc  | tat  | cta  | cta  | atc  | atc                                    | ata  | aaa  | ctt   | ctc  | ata  | ttt   | aσσ   | tac  | 819 |
|  |  | Val  |  |  |  |  |  |  |  |   |  |  |   |   |  |     |
| 81   |  |  | 0,10   | 175  |  |  |  |  | 180  |   |  |  | -,  | 185   | -1-  |     |
|  | . add  | aga  | ana  |  | tat  | aat  | ata                                    | gaa  |  | gaa   | gag  | aaa  | ata   |   | tta  | 867 |
|  |  | Arg  |  |  |  |  |  |  |  |   |  |  |   |   |  | 007 |
|  | s ALG  | Arg  | 190  | Gry  | тут  | лэр  | vai                                    | 195  | Mon  | Giu   | GIU  | цуз  | 200   | цуз   | пец  | •   |
| 85   |  |  |  |  |  | <b>.</b>   |  | 190  |  |   |  |  | 200   |   |  | 000 |
|  |  | act  |  |  |  | tga  |  |  |  |   |  |  |   |   |  | 888 |
| -  | / Met  | Thr  | Asn  | Ser  | HIS  |  |  |  |  |   |  |  |   |   |  |     |
| 89   |  | 205  |  | _  |  |  |  |  |  |   |  |  |   |   |  |     |
| 91 <210  |  |  |  |  |  |  |  |  |  |   |  |  |   |   |  |     |
| 92 <213  |  |  |  |  |  |  |  |  |  |   |  |  |   |   |  |     |
| 93 <212  |  |  |  |  |  |  |  |  |  |   |  |  |   |   |  |     |
| 94 <213  | 3> OR  | GANI   | SM: H  | omo  | sapi   | .ens   |  |  |  |   |  |  |   |   |  |     |
| 96 <400  | )> SE  | OHEN   | TE: 2  | •  |  |  |  |  |  |   |  |  |   |   |  |     |
|  |  |  |  |  |  |  |  |  |  |   |  |  |   |   |  |     |
|  |  | Leu  |  |  | Ser  | Val  | Val                                    | Leu  | Lys  | Leu   | Phe  | Leu  | Ala   | Ala   | Val  |     |
|  | Lys  |  |  |  | Ser  | Val  | Val                                    | Leu  | Lys<br>10  | Leu   | Phe  | Leu  | Ala   | Ala<br>15   | Val  |     |
| 97 Met<br>98   | Lys<br>l   |  | Leu  | Pro<br>5   |  |  |  |  | 10   |   |  |  |   | 15  |  |     |
| 97 Met<br>98   | Lys<br>l   | Leu  | Leu  | Pro<br>5<br>Val                                  |  |  |  |  | 10<br>Leu  |   |  |  |   | 15<br>Arg   |  |     |
| 97 Met<br>98 3<br>99 Let<br>100  | Lys<br>l<br>Ser  | Leu<br>Ala   | Leu<br>Leu<br>20   | Pro<br>5<br>Val                                  | Thr  | Gly  | Glu                                    | Ser<br>25  | 10<br>Leu  | Glu   | Arg  | Leu  | Arg<br>30   | 15<br>Arg<br>)  |  |     |
| 97 Met<br>98 3<br>99 Let<br>100  | Lys<br>l<br>Ser  | Leu<br>Ala   | Leu<br>Leu<br>20<br>a Gly                                  | Pro<br>5<br>Val                                  | Thr  | Gly  | Glu                                    | Ser<br>25<br>Asp   | 10<br>Leu  | Glu   | Arg  | Leu  | Arg<br>30<br>L Sei  | 15<br>Arg<br>)  | Gly  |     |
| 97 Met<br>98 3<br>99 Let<br>100<br>101 Let   | Lys<br>l<br>1 Ser<br>eu Al   | Leu<br>Ala<br>a Ala<br>3!  | Leu<br>Leu<br>20<br>a Gly                                  | Pro<br>5<br>Val<br>Thr                           | Thr<br>Ser                                     | Gly<br>Asn   | Glu<br>Pro<br>40                       | Ser<br>25<br>Asp   | 10<br>Leu<br>D Pro   | Glu<br>Pro                                      | Arg<br>Thi   | Leu<br>Val   | Arg<br>30<br>L Sei  | 15<br>Arg<br>)<br>Thi   | Gly<br>Asp   |     |
| 97 Met<br>98 3<br>99 Let<br>100<br>101 Let   | Lys<br>l<br>Ser<br>eu Al   | Leu<br>Ala<br>a Ala<br>3!  | Leu<br>Leu<br>20<br>a Gly                                  | Pro<br>5<br>Val<br>Thr                           | Thr<br>Ser                                     | Gly<br>Asn   | Glu<br>Pro<br>40<br>Gly                | Ser<br>25<br>Asp   | 10<br>Leu<br>D Pro   | Glu<br>Pro                                      | Arg<br>Thi   | Leu<br>Val<br>49<br>Val  | Arg<br>30<br>L Sei  | 15<br>Arg<br>)<br>Thi   | Gly  |     |
| 97 Met<br>98 3<br>99 Let<br>100<br>101 Let<br>102<br>103 G1  | Lys<br>l<br>Ser<br>eu Al<br>In Le  | Leu Ala a Ala 3! u Lei 0   | Leu Leu 20 a Gly 5   | Pro<br>5<br>Val<br>Thr                           | Thr<br>Ser                                     | Gly<br>Asn<br>Gly<br>55  | Glu<br>Pro<br>40<br>Gly                | Ser<br>25<br>Asp<br>Arg  | 10<br>Leu<br>D Pro   | Glu<br>Pro<br>Aro                               | Arg<br>Thi<br>Lys<br>60  | Leu<br>Val<br>45<br>Val  | Arg<br>3(<br>Sei<br>L Arg   | 15<br>Arg<br>)<br>Thi   | Gly<br>Asp<br>Leu  |     |
| 97 Met<br>98 3<br>99 Let<br>100<br>101 Let<br>102<br>103 G1<br>104<br>105 G1   | Lys<br>l<br>Ser<br>eu Al<br>ln Le<br>5   | Leu Ala a Ala 3! u Lei 0   | Leu Leu 20 a Gly 5   | Pro<br>5<br>Val<br>Thr                           | Thr<br>Ser                                     | Gly Asr Gly 55   | Glu<br>Pro<br>40<br>Gly                | Ser<br>25<br>Asp<br>Arg  | 10<br>Leu<br>D Pro   | Glu<br>Pro<br>Aro                               | Arg Thi Go Lys   | Leu<br>Val<br>45<br>Val  | Arg<br>3(<br>Sei<br>L Arg   | 15<br>Arg<br>)<br>Thi   | Gly<br>Asp   |     |
| 97 Met<br>98 3<br>99 Let<br>100<br>101 Let<br>102<br>103 G3<br>104<br>105 G3<br>106 6  | Lys<br>L Ser<br>Lu Al<br>Lu Le<br>5<br>Ln Gl   | Leu Ala a Ala 33 u Leu 0 u Ala   | Leu Leu 20 a Gly i Pro                                     | Pro<br>5<br>Val<br>Thr<br>Leu                    | Thr<br>Ser<br>Gly<br>Asp<br>70                 | Gly Asr Gly 55   | Glu Pro 40 Gly                         | Ser<br>25<br>Asp<br>Arq<br>Arq   | 10<br>Leu<br>D Pro<br>Pro<br>J Asp                               | Glu<br>Pro<br>Aro<br>Thr                        | Arg Thi Lys 60 Let   | Leu<br>Yal<br>45<br>Val<br>)<br>J Sei  | Arg<br>30<br>Sen<br>L Arg   | 15 Arg ) Thi Asp Lys  | Gly Asp Leu Pro 80   |     |
| 97 Met<br>98 3<br>99 Let<br>100<br>101 Let<br>102<br>103 G3<br>104<br>105 G3<br>106 G<br>107 G3  | Lys<br>L Ser<br>Lu Al<br>Lu Le<br>5<br>Ln Gl   | Leu Ala a Ala 33 u Leu 0 u Ala   | Leu Leu 20 a Gly i Pro                                     | Pro 5 Val Thr Leu Leu Thr                        | Thr Ser Asp 70                                 | Gly Asr Gly 55   | Glu Pro 40 Gly                         | Ser<br>25<br>Asp<br>Arq<br>Arq   | 10<br>Leu<br>D Pro<br>J Asp<br>J Val                             | Glu Pro Aro Thi 75                              | Arg Thi Lys 60 Let   | Leu<br>Yal<br>45<br>Val<br>)<br>J Sei  | Arg<br>30<br>Sen<br>L Arg   | 15 Arg ) Thi Asp Lys  | Gly C Asp D Leu S Pro 80 S Lys                             |     |
| 97 Met<br>98 3<br>99 Let<br>100<br>101 Let<br>102<br>103 G<br>104<br>105 G<br>106 G<br>107 G<br>108  | Lys<br>l<br>Ser<br>eu Al<br>In Le<br>5<br>In Gl  | Leu Ala a Ala 3! u Lei 0 u Ala a Lei   | Leu Leu 20 a Gly b 1 Pro                                   | Pro 5 Val Thr Leu Leu Thr 85                     | Thr Ser Asp 70                                 | Gly Asn Gly 55 Leu Asn   | Glu<br>Pro<br>40<br>Gly<br>Leu<br>Lys  | Ser<br>25<br>Asp<br>Arg<br>Arg   | 10<br>Leu<br>5<br>Pro<br>Asr<br>Val<br>Glu<br>90                 | Glu Pro Arc Thi 75 His                          | Arg Thi GLys 60 Let 6 GLet 6   | Leu Yal 45 Val S Val C V | Arg<br>3(<br>Sen<br>L Arg<br>r Sen<br>s Arg                         | 15 Arg ) Thi Asp Lys 95   | Gly C Asp D Leu S Pro 80 S Lys                             |     |
| 97 Met<br>98 3<br>99 Let<br>100<br>101 Let<br>102<br>103 G<br>104<br>105 G<br>107 G<br>108<br>109 Ly   | Lys<br>l<br>Ser<br>eu Al<br>In Le<br>5<br>In Gl  | Leu Ala a Ala 3! u Lei 0 u Ala a Lei   | Leu Leu 20 a Gly i Pro a Asp a Asp a Ala                   | Pro 5 Val Thr Leu Leu Thr 85                     | Thr Ser Asp 70                                 | Gly Asn Gly 55 Leu Asn   | Glu<br>Pro<br>40<br>Gly<br>Leu<br>Lys  | Ser<br>25<br>Asp<br>Arq<br>Arq<br>Glu  | 10<br>Leu<br>D Pro<br>J Asp<br>J Val<br>Glu<br>90<br>J Asp       | Glu Pro Arc Thi 75 His                          | Arg Thi GLys 60 Let 6 GLet 6   | Leu Yal 45 Val S Val C V | Arg<br>30<br>L Sei<br>L Arg<br>Sei<br>S Arg                         | 15 Arg ) Thi Asp Lys 95 Lys   | Gly C Asp D Leu S Pro 80 S Lys                             |     |
| 97 Met<br>98 3<br>99 Let<br>100<br>101 Let<br>102<br>103 G<br>104<br>105 G<br>107 G<br>108<br>109 Ly<br>110  | Lys<br>l<br>I Ser<br>eu Al<br>In Le<br>51n Gl<br>55<br>In Al   | Leu Ala a Ala 3! u Lei 0 u Ala a Lei y Ly:                                     | Leu  Leu  20 a Gly b Pro a Asp a Asp 1 Ala 5 Gly 100       | Pro 5 Val Thr Leu Thr 85                         | Thr Ser Asp 70 Pro                             | Gly Asn Signature Gly Signatur | Glu Pro 40 Gly Let Lys                 | Ser<br>25<br>Asp<br>Arg<br>Arg<br>Glu<br>Glu<br>105  | 10<br>Leu<br>D Pro<br>J Asp<br>J Val<br>J Glu<br>90<br>J Asp     | Glu  Pro  Arc  Thi  75  His                     | Arg Thi GE Let GE  | Leu Val 45 Val D Lys Lys   | Arg 30 L Sen 5 L Arg 7 Sen 8 Arg 110                                | 15 Arg ) Thi Asp Lys 95 Lys   | Gly C Asp D Leu S Pro 80 Lys Tyr                           |     |
| 97 Met 98 199 Lev 100 101 Lev 102 103 G1 104 105 G1 106 G1 107 G1 108 109 Ly 110 111 Ly  | Lys<br>l<br>I Ser<br>eu Al<br>In Le<br>51n Gl<br>55<br>In Al   | Leu Ala a Ala 3 u Le 0 u Ala a Le y Ly p Pha                                   | Leu 20 a Gly i Pro a Asp a Ala 5 Gly 100 c Cys             | Pro 5 Val Thr Leu Thr 85                         | Thr Ser Asp 70 Pro                             | Gly Asn Signature Gly Signatur | Glu Pro 40 Gly Leu Lys                 | Ser 25 Asp Arc Arc Glu GArc 105  | 10<br>Leu<br>D Pro<br>J Asp<br>J Val<br>J Glu<br>90<br>J Asp     | Glu  Pro  Arc  Thi  75  His                     | Arg Thi GE Let GE  | Leu  Val  45  Val  Val  Lys  Leu   | Arg 30 L Sei 50 L Arg T Sei 51 Arg 110 61 61                        | 15 Arg ) Thi Asp Lys 95 Lys   | Gly C Asp D Leu S Pro 80 S Lys                             |     |
| 97 Met 98 199 Lev 100 101 Lev 102 103 G1 104 105 G1 108 109 Ly 110 111 Ly 112  | Lys<br>l<br>Ser<br>Lu Al<br>Ln Le<br>55<br>Ln Gl<br>Ln Al<br>ys Gl   | Leu Ala a Ala 3 u Lei 0 u Ala a Lei y Lys                                      | Leu 20 a Gly i Pro a Asp i Ala 5 Gly 100 c Cys             | Pro 5 Val Thr Leu Leu Thr 85 Leu Ile             | Thr Ser Asp 70 Pro                             | Gly Asn State Asn Cly State Asn Cly Asn Cly  | Glu Pro 40 Gly Leu Lys Glu 120         | Ser 25 Asp Arc Arc Glu GArc LOS  | 10 Leu 5 Pro J Asp Val 1 Glu 90 J Asp 5 Lys                      | Glu  Pro Arc Thi 75 His                         | Arg  Thi  Guerra  Guer | Leu  Val  45  Val  Val  Lys  Leu  Lys  125   | Arg 30 L Sei 50 L Arg r Sei 61 Arg 110 65 Glu                       | 15 Arg ) Thi g Asp c Lys g Lys g Lys j Lys i Let                        | Gly  Asp  Leu  Pro 80  Lys  Tyr  Arg                       |     |
| 97 Met 98 199 Lev 100 101 Lev 102 103 G1 104 105 G1 106 6 107 G1 108 110 111 Ly 112 113 Al   | Lys<br>l<br>I Ser<br>eu Al<br>In Le<br>55<br>In Gl<br>In Al<br>Is Gl   | Leu Ala a Ala 3 u Leu 0 u Ala a Leu y Ly: p Phe 11! o Se:                      | Leu 20 a Gly i Pro a Asp i Ala 5 Gly 100 c Cys             | Pro 5 Val Thr Leu Leu Thr 85 Leu Ile             | Thr Ser Asp 70 Pro                             | Gly Asn Gly 55 Leu Asn Lys Gly   | Glu Pro 40 Gly Leu Lys Glu 120 Pro     | Ser 25 Asp Arc Arc Glu GArc LOS  | 10 Leu 5 Pro J Asp Val 1 Glu 90 J Asp 5 Lys                      | Glu  Pro Arc Thi 75 His                         | Arg  Thi  Eye  60  Let  50  Cys  Val  Gly  Gly  Gly  Gly  Gly  Gly  Gly  G   | Leu  Yal  45  Val  Val  Lys  Lys  Let  Lys  Gli  Gli   | Arg 30 L Sei 50 L Arg r Sei 61 Arg 110 65 Glu                       | 15 Arg ) Thi g Asp c Lys g Lys g Lys j Lys i Let                        | Gly C Asp D Leu S Pro 80 Lys Tyr                           |     |
| 97 Met 98 3 99 Lev 100 101 Lev 103 G1 104 105 G1 106 6 107 G1 110 111 Ly 112 113 A114  | Lys<br>l<br>I Ser<br>eu Al<br>In Le<br>55<br>In Gl<br>75 Gl<br>75 As   | Leu Ala a Ala 3 u Leu 0 u Ala a Leu y Ly: p Phe 11! o Se: 0                    | Leu  Leu  20 a Gly b Pro a Asp 1 Ala 5 Gly 100 c Cys       | Pro 5 Val Thr Leu Thr 85 Leu Ile                 | Thr Ser Asp 70 Pro                             | Gly Asn Gly 55 Leu Asn Lys Gly Gly His   | Glu Pro 40 Gly Leu Lys Glu 120         | Ser 25 Asp Arc Arc Glu GArc Cys O Gly  | 10 Leu  Pro Pro J Asr J Val Glu Asr Lys                          | Glu  Pro Arc Thi 75 His                         | Arg  Thi  Graph  | Leu  Yal  45  Val  Yal  Yal  Yal  Yal  Yal  Yal  Yal   | Arg 30 L Sen 50 L Arg 110 110 110 110 110 110 110 110 110 11        | 15 Arg ) Thi g Asp Lys 95 Lys Lys Cys Cys                               | Gly C Asp D Leu S Pro 80 S Lys S Tyr Arg His               |     |
| 97 Met 98 3 99 Lev 100 101 Lev 102 103 G1 104 105 G1 108 109 Ly 110 111 Ly 112 113 A114 115 G1   | Lysel Service All Service All All All All All All All All All Al   | Leu Ala a Ala 3 u Leu 0 u Ala a Leu y Ly: p Phe 11! o Se: 0                    | Leu  Leu  20 a Gly b Pro a Asp 1 Ala 5 Gly 100 c Cys       | Pro 5 Val Thr Leu Thr 85 Leu Ile                 | Thr Ser Asp 70 Pro Gly His                     | Gly Asn Gly State Asn Cly Asn Cly Gly His His Gly Gly  | Glu Pro 40 Gly Leu Lys Glu 120         | Ser 25 Asp Arc Arc Glu GArc Cys O Gly  | 10 Leu  Pro Pro J Asr J Val Glu Asr Lys                          | Glu  Pro Arc Thi 75 His Pro Tyr His             | Arg  Thi  Gueral  Cys  Val  Gueral  Gueral  Thi  Thi   | Leu  Yal  45  Val  Yal  Yal  Yal  Yal  Yal  Yal  Yal   | Arg 30 L Sen 50 L Arg 110 110 110 110 110 110 110 110 110 11        | 15 Arg ) Thi g Asp Lys 95 Lys Lys Cys Cys                               | Gly  Asp  Leu  Pro 80 Lys  Tyr Arg  His                    |     |
| 97 Met 98 3 99 Lev 100 101 Lev 103 G1 104 105 G1 108 109 Ly 110 111 Ly 112 113 A1 114 115 G1 116 14  | Lysell Service All Les Sin All All Property Les Sin | Leu Ala a Ala 3 u Leu 0 u Ala a Leu y Lys p Phe 11! o Se: 0 u Se:              | Leu  Leu  20 a Gly b 1 Pro a Asp 1 Ala s Gly c Cys c Cys   | Pro 5 Val Thr Leu Thr 85 Leu Ile                 | Thr Ser Asp 70 Pro Gly His Cys                 | Gly Asn Gly Stock Asn Clys Gly Gly Gly Gly Gly Gly Gly   | Glu Pro 40 Gly Leu Lys Glu 120 Pro     | Ser 25 Asp Arc Arc Glu GArc Cys OGly Arc   | 10 Leu  Pro Pro J Asp J Val  Glu S Asp J Val  Tyr J Leu          | Glu  Pro Arc Thi 75 His Pro Tyr His Tyr 155     | Arg  Thi  Lys  60  Let  Cys  Val  140  Thi  6  | Leu  45 Val 45 Val 1 Sei Lys Leu Lys Glu Tyr   | Arg 30 L Sen 50 L Arg 7 Sen 7 Arg 110 8 Glu 101 10 Arg 110 10 Arg   | 15 Arg Arg Thi Thi Asp Lys 95 Lys Cys Cys Lys Cys His                   | Gly C Asp D Leu S Pro 80 Lys S Tyr Arg His Thr 160         |     |
| 97 Met 98 3 99 Let 100 101 Let 102 103 GI 104 105 GI 106 6 107 GI 108 109 Ly 110 111 Ly 112 113 AI 114 115 GI 116 14 117 Th  | Lysell Service All Les Sin All All Property Les Sin | Leu Ala a Ala 3 u Leu 0 u Ala a Leu y Lys p Phe 11! o Se: 0 u Se:              | Leu  Leu  20 a Gly b 1 Pro a Asp 1 Ala s Gly c Cys c Cys   | Pro 5 Val Thr Leu Thr 85 Leu Thr 11e             | Thr Ser Gly Asp 70 Pro Gly His Cys Val 150 Val | Gly Asn Gly State Asn Cly Asn Cly Gly Gly Gly Gly Gly Gly Gly  | Glu Pro 40 Gly Leu Lys Glu 120 Pro     | Ser 25 Asp Arc Arc Glu GArc Cys OGly Arc   | 10 Leu 5 Pro Asr Val 90 Asr 90 Asr 7 Tyr Leu Leu                 | Glu  Pro Arc Thi 75 His Pro Tyr His Tyr 155 Ser | Arg  Thi  Lys  60  Let  Cys  Val  140  Thi  6  | Leu  45 Val 45 Val 1 Sei Lys Leu Lys Glu Tyr   | Arg 30 L Sen 50 L Arg 7 Sen 7 Arg 110 8 Glu 101 10 Arg 110 10 Arg   | 15 Arg Arg Thi Thi Asp Lys 95 Lys Cys Lys Cys His                       | Gly C Asp C Leu S Pro 80 S Lys C Tyr Arg Thr 160 Leu       |     |
| 97 Met 98 3 99 Lev 100 101 Lev 103 G1 104 105 G1 106 6 107 G1 108 109 Ly 110 111 Ly 112 113 A1 114 115 G1 116 14 117 Th 118  | Lysel  | Leu Ala a Ala 3 u Leu 0 u Ala a Leu y Lys p Pha 11! 0 Se: 0 u Se: e Leu        | Leu  Leu  20 a Gly i Pro a Asp 100 e Cys c Cys c Leu a Ala | Pro 5 Val Thr Leu Thr 85 Leu Thr 11e             | Thr Ser Gly Asp 70 Pro Gly His Cys Val 150 Val | Gly Asn Gly Stock Asn Clys Gly His Gly Gly Ala   | Glu Pro 40 Gly Leu Lys Glu 120 Pro Asr | Ser 25 Asp Arc Arc Glu Glu Cys OGly Arc  | 10 Leu 5 Pro Ray Asr 9 Ray Asr 9 Ray Tyr Leu 170                 | Glu  Pro Arc Thi 75 His Pro Tyr His 155 Ser     | Arg  Thi  Lys  60  Let  Cys  Val  140  Thi  Sei  | Leu  45 Val  45 Val  Lys Leu  125 Glu  Tyr   | Arg 30 L Sei 6 Arg Sei 6 Arg 1 Arg 110 6 Glu 6 Arg 1 Arg 1 Cys      | 15 Arg Arg Thi Thi Asp Lys 95 Lys Cys Let Cys His                       | Gly C Asp C Leu S Pro 80 S Lys C Tyr Arg Thr 160 Leu C Leu | ·   |
| 97 Met 98 199 Let 100 101 Let 102 103 GI 104 105 GI 106 107 GI 108 109 Ly 110 111 Ly 112 113 AI 114 115 GI 116 14 117 Th 118 119 Value 1 | Lysel  | Leu Ala a Ala 3 u Leu 0 u Ala a Leu y Lys p Pha 11! 0 Se: 0 u Se: e Leu        | Leu  Leu  20 a Gly b Pro a Asp 100 c Cys c Cys c Leu a Ala | Pro 5 Val Thr Leu Thr 85 Leu Ile Pro Val 165 Leu | Thr Ser Gly Asp 70 Pro Gly His Cys Val 150 Val | Gly Asn Gly Stock Asn Clys Gly His Gly Gly Ala   | Glu Pro 40 Gly Leu Lys Glu 120 Pro Asr | Ser 25 Asp Arc Arc Glu Arc Glu Cys OGly Arc Val  | 10 Leu 5 Pro Rapi Asp Val 1 Glu 90 Asp 5 Lys 7 Tyr Leu 170 1 Tyr | Glu  Pro Arc Thi 75 His Pro Tyr His 155 Ser     | Arg  Thi  Lys  60  Let  Cys  Val  140  Thi  Sei  | Leu  45 Val  45 Val  Lys Leu  125 Glu  Tyr   | Arg 30 L Sei 50 L Arg Sei 61 Arg 110 66 Glu 67 Arg Cys              | 15 Arg Arg Thi Thi Asp Lys 95 Lys Cys His Let 175 CG1                   | Gly C Asp C Leu S Pro 80 S Lys C Tyr Arg Thr 160 Leu       | ·   |
| 97 Met 98 99 Lev 100 101 Lev 102 103 G1 104 105 G1 106 107 G1 108 109 Ly 110 111 Ly 112 113 A1 114 115 G1 116 14 117 Th 118 119 Value 120  | Lysel Service All  | Leu Ala a Ala 3! u Lei 0 u Ala a Lei y Ly: p Pha 11! o Se: 0 u Se: e Lei e Va: | Leu  Leu  20 a Gly b Pro a Asp 100 c Cys c Cys c Leu 180   | Pro 5 Val Thr Leu Thr 85 Leu Ile Pro Val 165 Leu | Thr Ser Gly Asp 70 Pro Gly His Cys Val 150 Val | Gly Asn Gly Section Asn Cly Se | Glu Pro 40 Gly Leu Lys Glu 120 Pro Asr | Ser 25 Asp Arc 1 Arc 1 Cys 1 Cys 1 Arc 1 Cys 1 Cys 1 Arc | 10 Leu 5 Pro Ray Asr Val 1 Glu 90 Asr 5 Lys 7 Tyr Leu 170 1 Tyr  | Glu Pro Arc Thr 75 His Pro Tyr 155 Ser His      | Arg  Thi  Lys  60  Let  Cys  Val  140  Thi  Sei  Arg   | Leu  Val  45  Val  Ser  Lys  Lev  Cluy  Gluy  Tyr  Val   | Arg 30 L Sei 50 L Arg 51 Sei 51 Arg 61 11 63 Gli 64 Cys 75 19 19 19 | 15 Arg Arg Thi Thi Asp Lys 95 Lys Cys Cys Cys Cys Cys Cys Cys Cys Cys C | Gly C Asp C Leu S Pro 80 S Lys C Tyr Arg Thr 160 Leu C Leu |     |

RAW SEQUENCE LISTING .
PATENT APPLICATION: US/09/762,432

DATE: 07/11/2001

TIME: 11:26:07

Input Set : A:\Sequence.txt

Output Set: N:\CRF3\07112001\I762432.raw

|   | 122 |       |     | 195   |       |      |     |      | 200     |       |      |      |     | 205 |     |     |     |  |
|---|-----|-------|-----|-------|-------|------|-----|------|---------|-------|------|------|-----|-----|-----|-----|-----|--|
|   | 124 | <210> | SE  | QI Ç  | NO:   | 3    |     |      |         |       |      |      |     |     |     |     |     |  |
|   | 125 | <211> | LE  | NGTH  | : 36  |      |     |      |         |       |      |      |     |     |     |     |     |  |
|   | 126 | <212> | TY  | PE: 1 | PRT   |      |     |      |         |       |      |      |     |     |     |     |     |  |
|   | 127 | <213> | OR  | GANIS | SM: F | lomo | sap | iens |         |       |      |      |     |     |     |     |     |  |
|   | 129 | <220> | FEA | ATUR  | Ξ:    |      |     |      |         |       |      |      |     |     |     |     |     |  |
|   | 130 | <221> | NAN | ME/KI | Y:Y   | ARI  | TNA |      |         |       |      |      |     |     | •   |     |     |  |
|   | 131 | <222> | LO  | CATIO | ON:   | (1)  | (3  | 6)   |         |       |      |      |     |     |     |     |     |  |
|   | 132 | <223> | OTI | HER : | INFOF | TAM  | :NO | Xaa  | $= A_1$ | ny Ar | nino | Acid | ż   |     |     |     |     |  |
|   | 134 | <400> | SEÇ | QUEN  | CE: 3 | }    |     |      |         |       |      |      |     |     |     |     |     |  |
| > | 135 | Cys   | Xaa | Xaa   | Xaa   | Xaa  | Xaa | Xaa  | Xaa     | Cys   | Xaa  | Xaa  | Xaa | Xaa | Cys | Xaa | Xaa |  |
|   | 136 | 1     |     |       |       | 5    |     |      |         |       | 10   |      |     |     |     | 15  |     |  |
| > | 137 | Xaa   | Xaa | Xaa   | Xaa   | Xaa  | Xaa | Xaa  | Xaa     | Cys   | Xaa  | Cys  | Xaa | Xaa | Xaa | Xaa | Xaa |  |
|   | 138 |       |     |       | 20    |      |     |      |         | 25    |      |      |     |     | 30  |     |     |  |
| > | 139 | Xaa   | Xaa | Xaa   | Cys   |      |     |      |         |       |      |      |     |     |     |     |     |  |
|   | 140 |       |     | 35    |       |      |     |      |         |       |      |      |     |     |     |     |     |  |

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/762,432

DATE: 07/11/2001

TIME: 11:26:08

Input Set : A:\Sequence.txt

Output Set: N:\CRF3\07112001\I762432.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3